

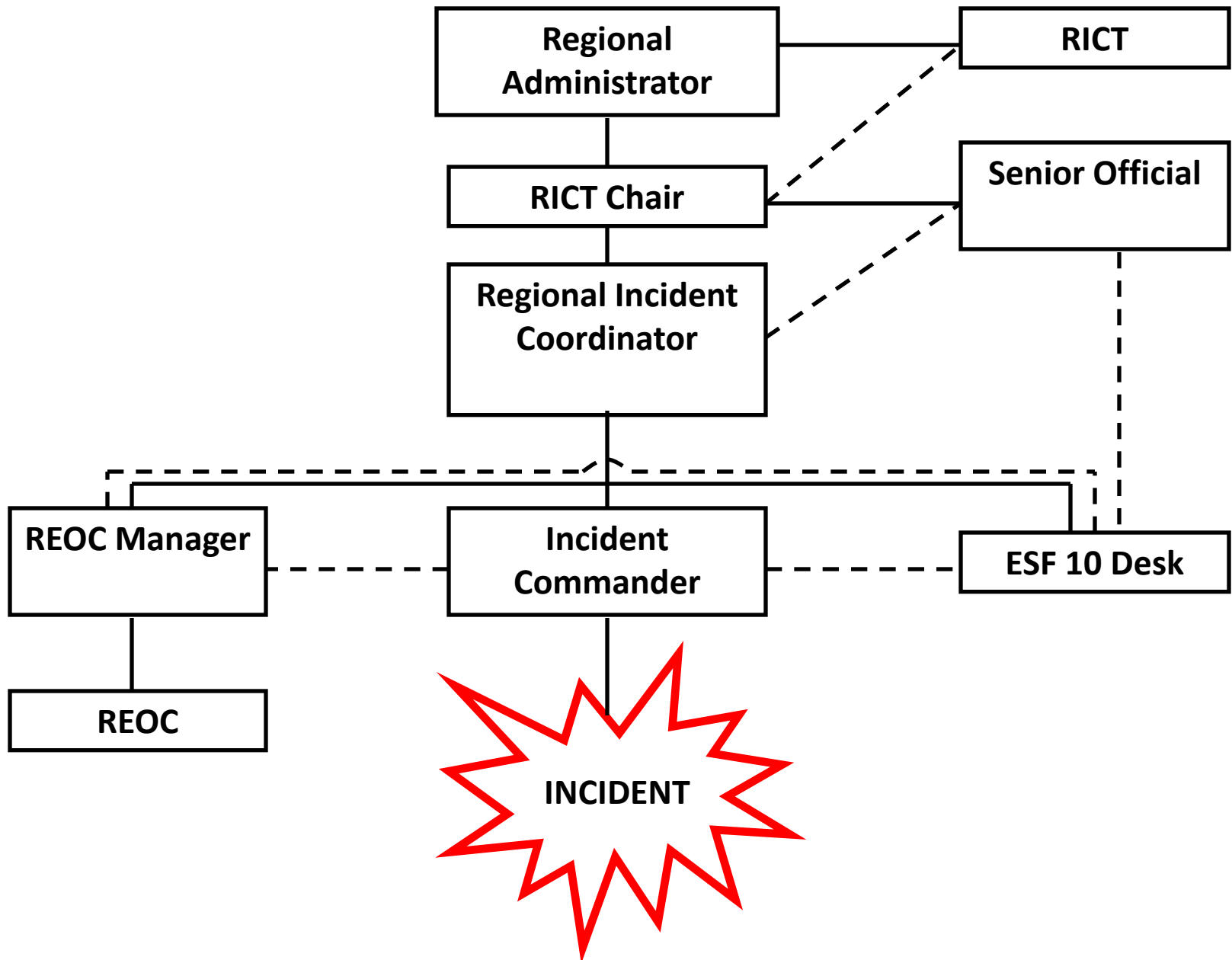


Deepwater Horizon Incident

5/06/2010



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Incident Objectives



- Ensure the safety of responders
- Determine nature and extent of environmental impacts due to the oil spill
- Maintain situational awareness to support field operations and inform management
- Maintain operational consistency across theater of operations
- Monitor and control costs
- Conduct oversight and monitoring of potentially responsible party's assessment and clean-up activities

Incident Command Post



- EPA requested SOW change and funding increase to \$5 million.
- EPA Representative provided its Public/Environmental Sampling information to the Safety and Environmental units of Unified Command.
- EPA Representative coordinated with the Safety unit to provide sampling media for offshore near the drilling rig with SUMMA canisters and a tedlar bag. CTEH/USCG will transport and collect sample media and return to EPA.
- EPA Representative coordinated with USDA about Aquariums with intakes within the Gulf of Mexico and will provide those to command once obtained.
- In a meeting with the Environmental Unit, EPA was recognized for its efforts with Public/Environmental sampling/monitoring along with pushing the use of a GIS unit and ArcGIS Server installation.
- According to the Unified Command Ops Section, the 5/5 in-situ burn was scheduled to begin at approximately 1200. OSC Moore alerted and instructed ASPECT to conduct an over flight of the burn.

Area Command Post



- The Subsurface Dispersant test application is now known to have extended beyond 1000 hrs.
- Communications between dispersant operations run from Houma and Area Command EU have proven to be poor.
- Samples collected from ROV in support of Dispersant test had still not been sent to LSU for analysis as of 1400 hrs on 5/4.
- Aerial observation by Aspect aircraft indicated heavy oiling in the rig area. Comparison with data collected on 4/28 will be necessary to determine if subsea dispersant application has impacted the surface slick.
- A commercial research vessel has been contracted by BP to support potential sampling and monitoring (Phase 1 plan) to support ongoing subsea dispersant application.
- NOAA is loading all available aerial imagery, booming strategy, SCAT data, and other data into ERMA.
- EPA Logistics Strike Team delivered LSV2 to Area Command at 1630 hrs on 5/4.

Air monitoring



- Air monitoring for particulates and VOCs is ongoing at the following locations:
 - V02 - located at USCG - Venice - 29.25274 N., 89.35750 W (ongoing);
 - V03 - located at Welding Supply Co. in Boothville, LA - 29.31449 N., 89.38433 W (ongoing);
 - V04 - located at Fort Jackson - 29.35714 N., 89.45605 W (at approx. 0750 5/5 due to increased dirt road dust).
 - V05 - 29.35699 N, 89.45487 W (Activated at approx. 0805 5/5; ongoing monitoring)
 - C01 - Chalmette, LA – 29.94562, -89.9721 - located at Fire Station number 3, near corner of Jackson Street and Judge Perez;
 - C02 - Poydras, LA – 29.86609, -89.89108 - located at Fire Station number 8;
 - C03 -Hopedale, LA – 29.82209, -89.60862 - located at the Emergency Operations.

Air Monitoring & Samples	DataRAM (PM10)	AreaRae	SUMMA Canisters	PM2.5	TOTALS FOR 5/4
Venice	3 locs/24-hr	3 locs/24-hr	6	3	9
Chalmette	3 locs/24-hr	3 locs/24-hr	6	3	9
TOTAL TO DATE	6 locs/24-hr	6 locs/24-hr	67	24	

*QAQC samples not included in sample count

TAGA Monitoring



- On 5/4, TAGA 1553 performed mobile monitoring for (BTEX) in Southeastern LA; from Slidell to Hopedale, to Delacroix to Poydras, to Boheman. No BTEX observed above low ppbv levels during any monitoring events
- TAGA 1553 continues to perform mobile monitoring in Southeastern LA. TAGA 1554 continues to perform mobile monitoring in Southern LA and Mississippi.
-

ASPECT overflights



- ASPECT plane is continuing to conduct over flights at the direction of Incident Command based on current conditions provided by field teams and BP operations. Specifically, overflights will occur during dispersant applications and in-situ burns.

ASPECT conducted an overflight in afternoon of 5/4. Twelve runs of data collected just north of the rig site.

On 5/5, ASPECT was tasked by OSC Moore to conduct an over flight of the in-situ burn. ASPECT departed airfield at 1130. ASPECT's ETA for the rig site is 1210. Data should be available by 1400-1430.

At 1210 on 5/5, the description from the ASPECT crew is "tons of oil". Oil spotting report of heavy oil approximately 1 mile east of the northern Chandeleur Islands on the transit to the site. For all practical purposes ASPECT is on-station and looking for the burn to start.

ASPECT Photos



Water & Sediment Sampling

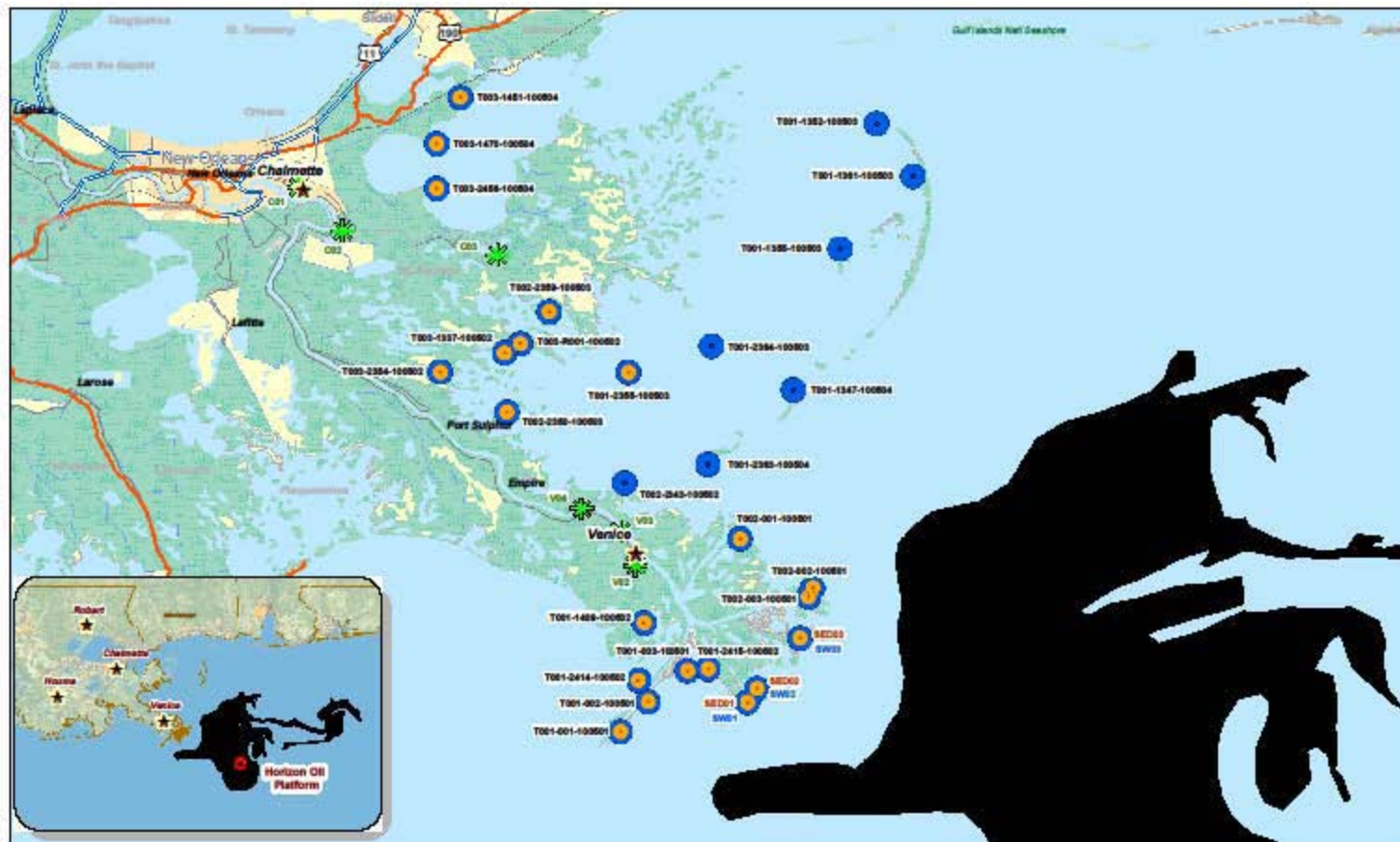


- EPA continues to take surface water and sediment samples from multiple locations.
- Sample teams observed oil midway between sample locations T001-2363-100504 and T001-1347-100504 (between the delta and Chandeleur Islands).
- Venice operations were unable collect sediment samples on 5/4 due to the sediment being compacted.
- Venice operations launched one water and sediment sampling team on 5/5. Sample locations increased to include the Louisiana coastline west of the delta.
- Chalmette water operation teams deployed to Lake Borgne Area on 5/4. No oiled wildlife and no oil observed or odors detected. Water and sediment sampling teams are have been launched for 5/5.

Water/Sediment Samples	Water	Sediment	TOTALS FOR 5/4
Venice	2	0	12
Chalmette	3	3	6
TOTAL TO DATE	28	21	

*QAQC samples not included in sample count

Sampling Map



Legend
Samples
 Air
 Sediment
 Surface Water
 Closed Offg 5/5/2010 11:47 am



US EPA REGION 6
START-3
 (For Official Use Only)

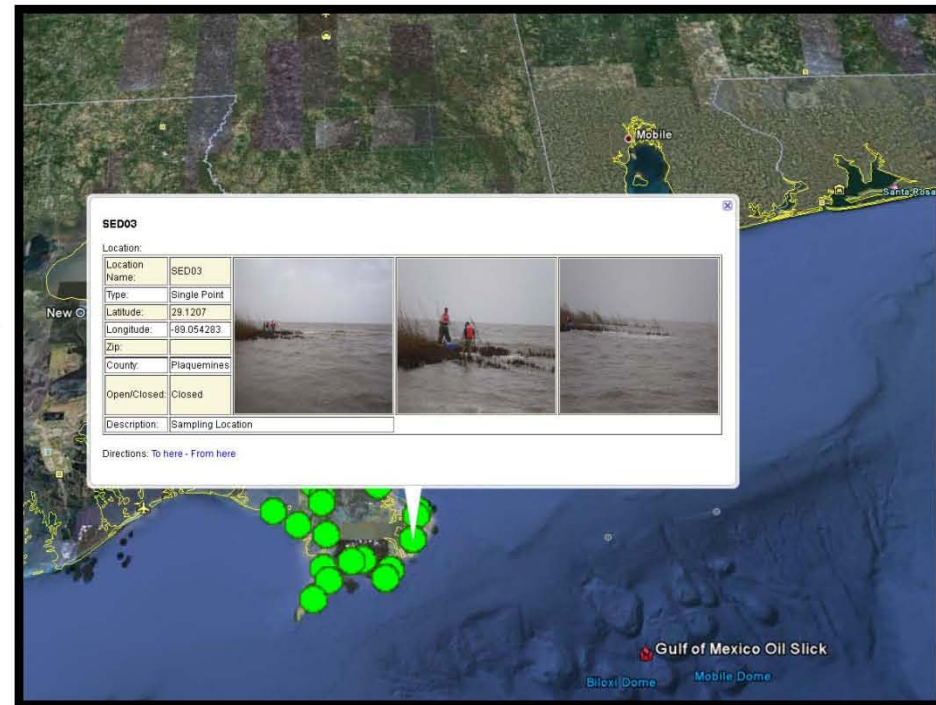
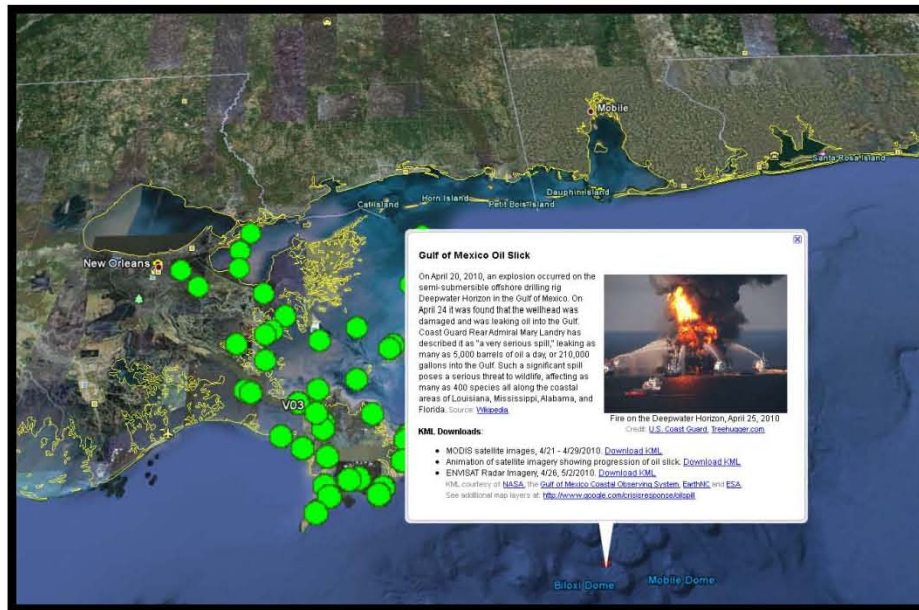
Sampling Locations Map

Date Created:
 5/8/2010

DCN:
 P560

SCALE:

Google Earth– Sample Locations



MAP ID: FACILITY NAME: ID: X: Y: STATE: X: Y: STATE:

MAP ID	FACILITY NAME	ID	X	Y	STATE
01	Calhoun Parish - North Road Plant	0101	14.000000	14.000000	LA
02	Calhoun Parish - North Road Plant	0102	14.000000	14.000000	LA
03	Calhoun Parish - North Road Plant	0103	14.000000	14.000000	LA
04	Calhoun Parish - North Road Plant	0104	14.000000	14.000000	LA
05	Calhoun Parish - North Road Plant	0105	14.000000	14.000000	LA
06	Calhoun Parish - North Road Plant	0106	14.000000	14.000000	LA
07	Calhoun Parish - North Road Plant	0107	14.000000	14.000000	LA
08	Calhoun Parish - North Road Plant	0108	14.000000	14.000000	LA
09	Calhoun Parish - North Road Plant	0109	14.000000	14.000000	LA
10	Calhoun Parish - North Road Plant	0110	14.000000	14.000000	LA
11	Calhoun Parish - North Road Plant	0111	14.000000	14.000000	LA
12	Calhoun Parish - North Road Plant	0112	14.000000	14.000000	LA
13	Calhoun Parish - North Road Plant	0113	14.000000	14.000000	LA
14	Calhoun Parish - North Road Plant	0114	14.000000	14.000000	LA
15	Calhoun Parish - North Road Plant	0115	14.000000	14.000000	LA
16	Calhoun Parish - North Road Plant	0116	14.000000	14.000000	LA
17	Calhoun Parish - North Road Plant	0117	14.000000	14.000000	LA
18	Calhoun Parish - North Road Plant	0118	14.000000	14.000000	LA
19	Calhoun Parish - North Road Plant	0119	14.000000	14.000000	LA
20	Calhoun Parish - North Road Plant	0120	14.000000	14.000000	LA
21	Calhoun Parish - North Road Plant	0121	14.000000	14.000000	LA

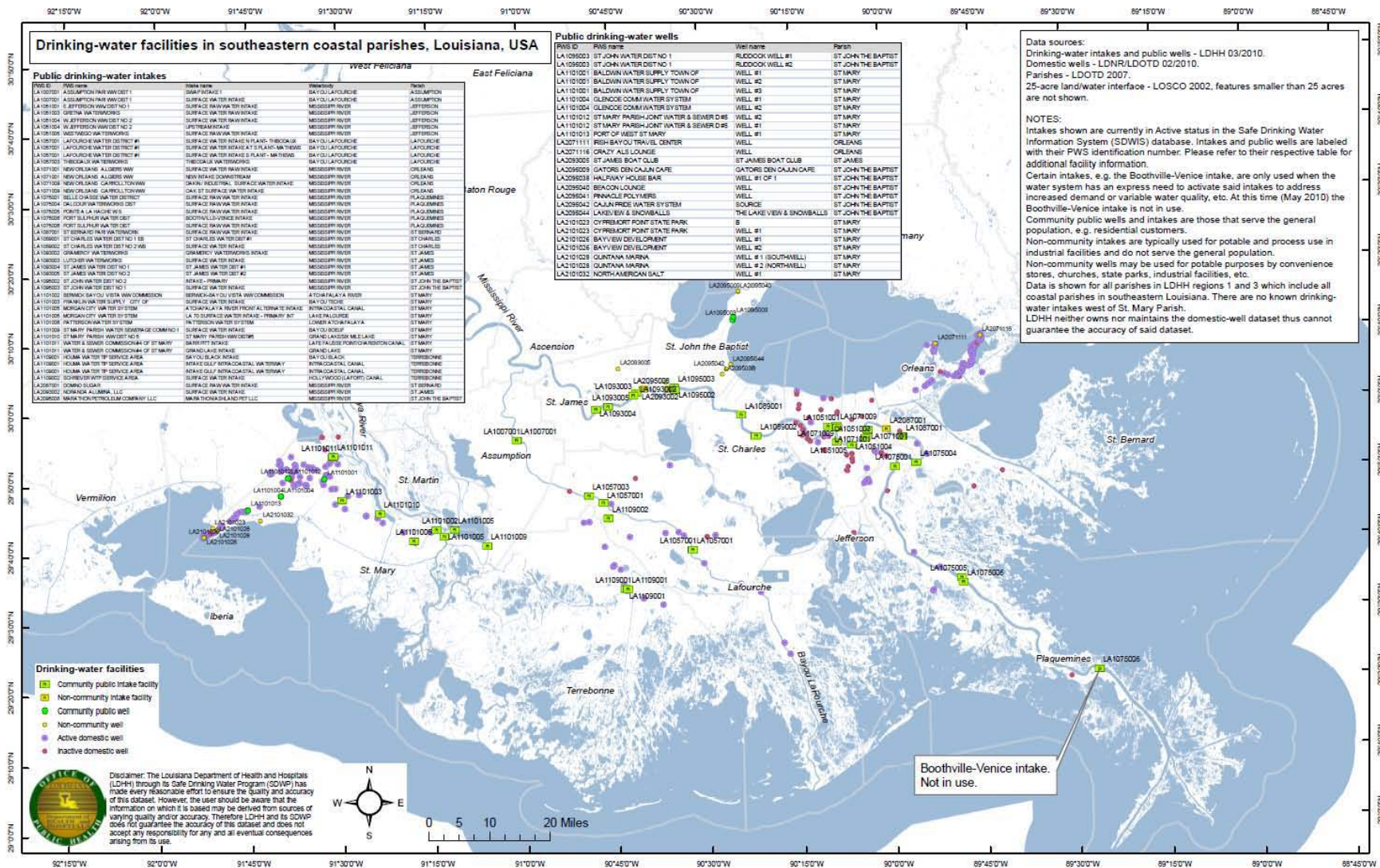
NOTES:
 (1) LDEO VERIFIED INDUSTRIAL FACILITIES W/ INTAKES
 (2) R6 SPATIAL DATA SOURCE:
 \\\gis\mc\incidents\gom_platform_fire_2010\data\facilities\industrial\water_intakes.mdb

Legend
 ● INDUSTRIAL FACILITY W/ INTAKE

SOUTH LOUISIANA INDUSTRIAL FACILITIES WITH WATER INTAKES
 DATE: 4-May-18
 BY: [Redacted]
 FOR: [Redacted]

Map Details:
 Scale: 0 to 20 Miles
 Inset Map: Shows the location of the study area within the state of Louisiana.

Southeast LA Drinking Water Facilities



Oil Trajectory Map

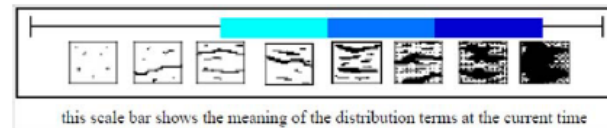
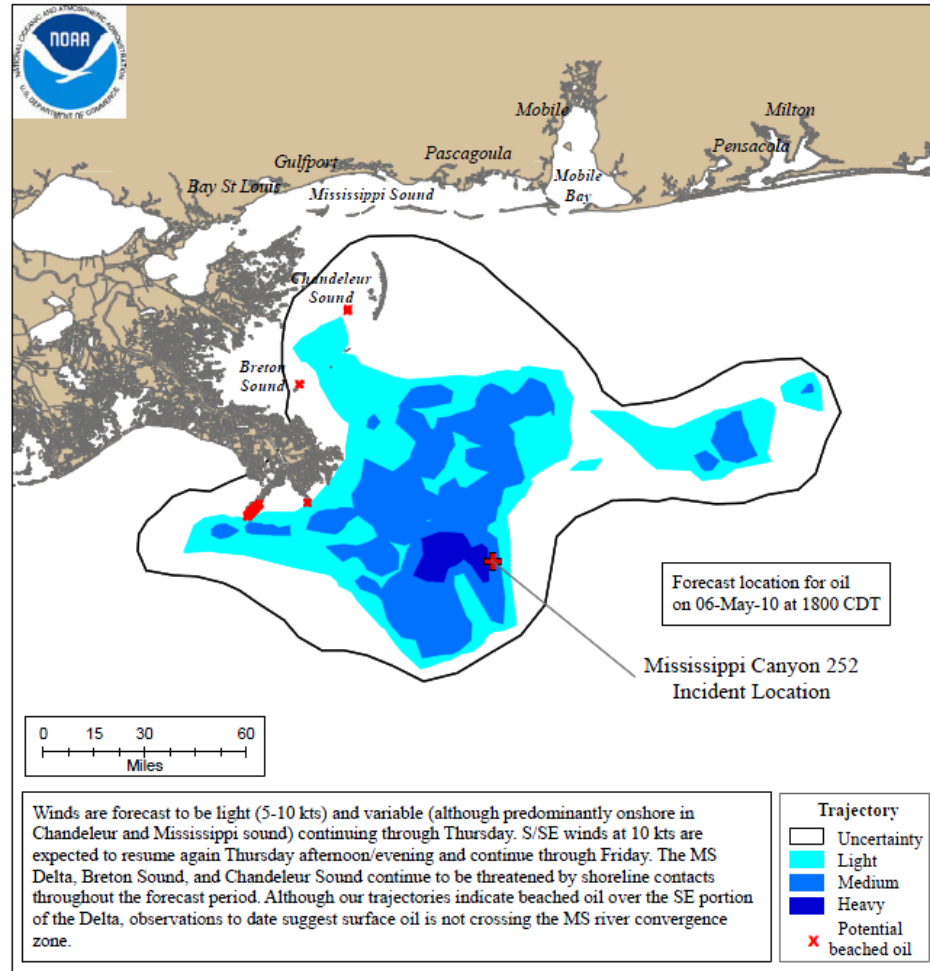
Trajectory Forecast Mississippi Canyon 252

NOAA/NOS/OR&R

Estimate for: 1800 CDT, Thursday, 5/06/10

Date Prepared: 2000 CDT, Wednesday, 5/05/10

This forecast is based on the NWS spot forecast from Wednesday, May 5 PM. Currents were obtained from the NOAA Gulf of Mexico, Texas A&M/TGLO, and NAVO/NRL models and HFR measurements. The model was initialized from early morning satellite imagery analysis provided by NOAA/NESDIS and Wednesday overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization).



Next
Forecast:
May 6th PM

Sampling Timeline



= The day the data is published to SCRIBE as validated final data and accessible to EPA HQ

<u>Sample Type (1)</u>	Samples Collected and Shipped (4)	Samples Arrive at lab	Preliminary Results Received from lab		Validated Results Received from Data Validators	Data Loaded and Published in SCRIBE
Air Sampling						★
Sediment Sampling						★
Water Sampling						★
LDEQ Air Sampling (2)						★
	Day 0 (3)	Day 1	Day 2	Day 3	Day 4	12:00 p.m. Day 5

- (1) Assumes all samples are 24 hour turn around from Labs
- (2) This timeline is from when EPA START receives custody of samples
- (3) The day the data is collected from the field, Air samples are shipped in batches as they are collected
- (4) All Samples collected on Sunday will be shipped on Monday

<u>Monitoring Instrument</u>	Data downloaded from Monitoring Instruments	Data loaded and published to SCRIBE
Data Ram (Particulaes)		★
Area Rae (VOC's)		★
Multi Rae (VOC's)		★
	12:00 a.m. – 12:00 a.m. Day 0*	12:00 p.m. Day 1

* Any monitoring readings for VOC's above 10 ppm will be immediately reported to Incident Command

EPA Assets



- **Activated in Dallas, TX**
 - REOC is activated
 - SRICT activated
 - RRT activated

Deployed Personnel

Personnel	Dallas, TX	Venice, LA	Robert, LA	Houma, LA	New Orleans, LA	Chalmette, LA	Slidell, LA	TOTALS
EPA								
- OSC	6	1		2		1		10
- RSC	4		1	1				6
- PIO			3					3
- Other			2		1	1		4
START	4	14				12		30
ERT Contractor		1						1
TAGA Personnel							10	10
ASPECT Personnel							4	4
Other								
TOTALS	14	16	6	3	1	14	14	68

Deployed Equipment

Equipment	Dallas, TX	Venice, LA	Robert, LA	Houma, LA	New Orleans, LA	Chalmette, LA	Slidell, LA	TOTALS
Mobile Command Post		1						1
ASPECT							1	1
TAGA Bus							2	2
LRV			1			1		2
TOTALS		1	1			1	3	6

Deepwater Horizon Images



Before explosion

Day after the explosion



Deepwater Horizon Images



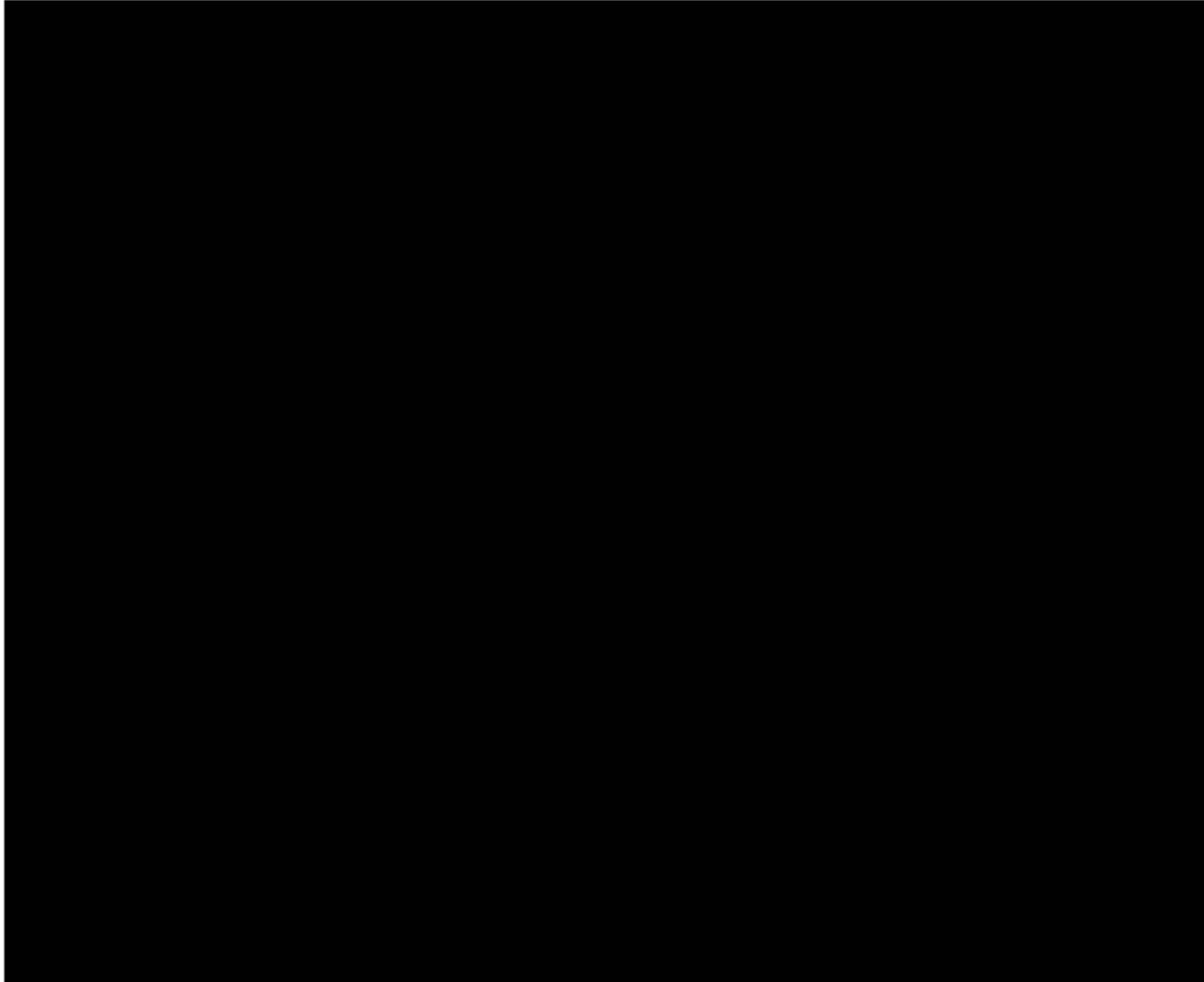
In situ Burn



Venice Command Post



Subsea Dispersant Feed



Subsea Dispersant Feed

